

## ABSTRACT OF THE DISCLOSURE

A branching point on a wire is detected in the layout results S101. A delay amount of a route with a dummy buffer being  
5 inserted on a wire subsequent to the branching point S102 and that  
of the route without a dummy buffer being inserted are then  
calculated S103. Based on the delay amounts, an insertion point  
at which a load-dividing buffer is to be inserted is determined S104.  
On condition that a load-dividing buffer is to be inserted at the  
10 insertion point, the drive capability of a driving cell preceding  
the insertion point is calculated so that timing constraints are  
satisfied S105. Then, after it is confirmed that a load-dividing  
buffer is insertable at the determined insertion point S106,  
processes of placing a load-dividing buffer, changing the drive  
15 capability of the driving cell, and changing wiring information  
are performed on the layout results S107.